

SOLENOID VALVES

SOLENOID - AIR POPPET VALVES AND SPOOL VALVES

Summary



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Products

	Type	Series	Page
Micro-solenoid valves	Micro 10	188	P501
Subbase mounted mini valve - subbase Ø M5 - 2/2 - 3/2		302	P502A-B
Subbase mounted piezovalve PIEZOTRONIC - subbase Ø M5 - G1/8		630	P503
Electro/pneumatic and pneumatic/electric interface		302-304	P504
Solenoid valve - tapped G 1/8 - G 1/4		107	P507
Solenoid valve with orientable coupling G 1/8		189 banjo	P508
Subbase mounted solenoid valve - instant fittings or tapped G 1/8		189	P509
Subbase mounted solenoid valve - instant fittings or tapped G 1/8		190	P510
Subbase mounted solenoid valve - instant fittings or tapped G 1/8 - G 1/4		192	P512
3/2 Micro-spool valves - tapped/subbase Ø M3 - M5	Micro 10	518	P545
Mini-spool valves - tapped/subbase mounted, instant fittings or tapped G 1/8		520	P550-2
2 x 3/2 - joinable spool valve, with instant fittings Ø4 - Ø6 mm	COMPACT8	576	P574-9
2 x 3/2 - joinable spool valve, with instant fittings Ø6 - Ø8 mm	MEGA	578	P575-6
Spool valve - tapped G 1/4 - G 3/8 - G 1/2 with built-in pilot		551-552-553	P524
Spool valve - tapped G 1/4 - G 3/8 - G 1/2 with CNOMO pilots, sizes 15 and 30		551-552-553	P561
NAMUR subbase mounted spool valve	NAMUR	551-552-553	P562
Poppet valves - tapped G 3/8 to G 1 1/2	DH	284-285-286	P528
AFNOR subbase mounted poppet valves - subbases G 1/2 to G 1 1/2	DP (3/2)	266-267-268	P529

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Coils - connectors and accessories

Standard coils for solenoid valves, codification, consumption	430	P500-4
Bistable coil, double pulse, size 22 (24V=)	430	P514
Connector size 15 - IP65	881	P515-2
Connector size 15 - IP20	881	P516
Module of visual indication and electrical protection, size 15	881	P515-3
Connectors sizes 22 and 30 (ISO 4400)	881	P515-1
Connector size 30 (ISO 4400) with Transil protection	881	P515-4
Electronic multimer, with adjustable pulses (ISO4400)	881	P518
Connectors sizes 22 and 30 (ISO 4400) for AS-Interface connection	881	P522



SOLENOID - AIR SPOOL VALVES AND FLAMEPROOF EQUIPMENT

	Products	Type	Series	Page
4/2	Joinable poppet valves - instant fittings or tapped G 1/8 - G 1/4		263-264	P530
	AFNOR subbase mounted poppet valves - subbases G 1/2 to G 1 1/2	DP (4/2)	266-267-268	P540
5/2	Micro-spool valves - tapped/subbases Ø M3 - M5	MICRO 10	518	P545
	Mini spool valves - tapped Ø M5 - G 1/8 - G 1/4 (adaptable on subbase)		519-520-521	P550
	Subbase with built-in connections for spool valves series 520		520	P550-11
	Joinable spool valve with instant fittings Ø4 - Ø8 mm	COMPACT8	576	P574-9
	Joinable spool valve with instant fittings Ø6 - Ø8 mm	MEGA	578	P575-6
	Spool valve - tapped G 1/4 - G 3/8 - G 1/2 with built-in pilot	551-552-553		P560
	Spool valve - tapped G 1/4 - G 3/8 - G 1/2 with CNOMO pilots, sizes 15 and 30	551-552-553		P561
	NAMUR subbase mounted spool valve	NAMUR	551-552-553	P562
	Subbase mounted spool valve - instant fittings or tapped G 1/8		540	P565
	Subbase mounted mini-spool valves ISO 02-ISO 01 VDMA / integrated or mounted pilots		538-539	P568
	COMPACT subbase mounted spool valve ISO1 - subbases G 1/4 - G 3/8		541	P570-1
	Subbase mounted multifunction spool valve ISO1 - subbases G 1/4 - G 3/8		541/PH	P570-3
	Subbase mounted multifunction spool valve ISO2 - subbases G 3/8 - G 1/2		542/PH	P570-20
	Subbase mounted multifunction spool valves ISO3 - subbases G 1/2 - G 3/4		543	P570-31
	Subbase mounted multifunction spool valves ISO4 - subbases G 3/4 - G 1		544	P570-36
	Spool valve ISO1 with M12 connection		541/PH	P572-4
	Spool valve ISO2 with M12 connection		542/PH	P572-10
Spool valve ISO3 with M12 connection		543	P572-16	
5/3	Micro-spool valves - tapped/subbases Ø M3 - M5	MICRO 10	518	P545
	Mini spool valves - tapped Ø M5 - G 1/8 - G 1/4 (adaptable on subbase)		519-520-521	P550
	Joinable spool valve with instant fittings Ø4 - Ø8 mm	COMPACT8	576	P574-9
	Joinable spool valve with instant fittings Ø6 - Ø8 mm	MEGA	578	P575-6
	Subbase mounted mini-spool valves ISO 02-ISO 01 VDMA / integrated or mounted pilots		538-539	P568
	Subbase mounted multifunction spool valve ISO1 - subbases G 1/4 - G 3/8		541/PH	P570-7
	Subbase mounted multifunction spool valve ISO2 - subbases G 3/8 - G 1/2		542/PH	P570-23
	Subbase mounted multifunction spool valve ISO3 - subbases G 1/2 - G 3/4		543	P570-33
	Subbase mounted multifunction spool valve ISO4 - subbases G 3/4 - G 1		544	P570-39
	Spool valve ISO1 with M12 connection		541/PH	P572-4
	Spool valve ISO2 with M12 connection		542/PH	P572-10
Spool valve ISO3 with M12 connection		543	P572-16	

DISTRIBUTION ISLANDS

■ Connection by multiwire cable (MULTIPOL) :

- MULTIPOL IP65, spool valves valves with instant fittings Ø 4 - Ø 6 mm	COMPACT8	676	P574
- MULTIPOL IP20 - IP65, spool valves with instant fittings Ø6 - Ø8 mm	MEGA	678	P575
- MULTIPOL Generation C with spool valves Ø M5 - G 1/8 - G 1/4			P581
- MULTIPOL with spool valves VDMA - ISO 02 - ISO 01 (G 1/8 - G 1/4)			P584
- MULTIPOL with spool valves ISO1 - ISO2 (G 1/4 - G 1/2)			P585

■ A fieldbus (BUSLINK), protocols : Profibus-DP / Interbus-S / Device-Net / Can Open / AS-Interface :

- COMPACT with control over Profibus-DP/Device Net/Can Open/AS-Interface	COMPACT8	676	P574	
- MEGA with control over Profibus-DP / AS-Interface protocols	MEGA	678	P575-23	
- BUSLINK Generation C with spool valves Ø M5 - G 1/8 - G 1/4			P586	
- BUSLINK with spool valves VDMA - ISO 02 - ISO 01 (G 1/8 - G 1/4)			P588	
- BUSLINK with spool valves ISO1 - ISO2 (G 1/4 - G 1/2)			P589	

SOLENOID VALVES ATEX FOR USE IN EXPLOSIVE ATMOSPHERES

	Piezovalue PIEZOTRONIC intrinsically safe - EEx "ia"		630/ia	P590
	Mini solenoid valve intrinsically safe, CNOMO size 15 and M12 - EEx "ia"		302/ia	P591
	Solenoid valve intrinsically safe, CNOMO size 30 - EEx "ia"		195/ia	P592
	Solenoid head, size 22 - EEx "m"		189PV/m22	P593
	Solenoid head, size 30 - EEx "d" (Cable gland - EEx "d" : P594-3)		374NK/d	P594
	Coil size 22, 25, 30 and connector, ATEX, dusty aymospheres, zone 22		DU	P597

All leaflets are available on: www.ascojoucomatic.com

CHOICE OF EQUIPMENT

SOLENOID AIR VALVES AND PILOTS

Ports/positions	PILOT		FUNCTION (1)		TECHNOLOGY		BODY		CONNECTION											Types	Series	Page					
	Solenoid	Air-solenoid	NC	NO	Poppet	Spool	Subbase mounted	Tapped	instant fittings		Ø G																
									Ø4 O.D.	Ø6 - Ø8 O.D.	M3	M5	1/8	1/4	3/8	1/2	3/4	1	1 1/4				1 1/2				
3/2	●		●	●	●		●	●			●	●											Micro 10	188	P501		
	●		●		●		●					●												Taille 15	302	P502	
	●				●		●			●		●	●											Piezotronic interface	630	P503	
	●	●			●		●			●			●	●											302-304	P504	
	●		●	●	●		●			●				●	●										107	P507	
	●		●	●	●		●			●					●										CNOMO	189	P509
	●		●		●		●			●					●										CNOMO	190	P510
	●		●	●	●		●			●					●	●									CNOMO	192	P512
		●		●			●			●					●	●	●								551-552-553	P524-P561	
		●					●			●					●										NAMUR	551-552-553	P562
		●		●	●	●				●					●	●									DM (3/2)	261-262	consult us
		●		●	●	●				●					●	●	●	●	●	●	●	●	●		DH	284-285-286	P528
		●		●	●	●				●					●		●		●		●				DP (3/2)	266-267-268	P529
	2x3/2	●		●	●		●			●			●	●											Micro 10	518	P545
●			●			●			●					●											520	P550-2	
4/2	●				●				●						●	●								263-264	P530		
	●				●				●						●	●								DM (4/2)	261-262	consult us	
	●				●				●							●		●		●				DP (4/2)	266-267-268	P540	
5/2	●					●			●			●	●											Micro 10	518	P545	
	●					●	●(2)	●	●	●	●	●	●	●											519-520-521	P550	
	●					●			●															MEGA	578	P575-6	
	●					●	●(2)	●	●																520	P550-11	
	●					●			●						●	●	●								551-552-553	P560-P561	
	●					●			●						●										NAMUR	551-552-553	P562
	●					●			●						●										540	P565	
	●					●			●						●	●									(VDMA ISO 02-ISO 01)	538-539	P568
	●					●			●						●	●									Compact	541	P570-1
	●					●			●						●	●									(ISO 1)	541/PH	P570-31 P572-16
	●					●			●						●	●									(ISO 2)	542/PH	P570-3 P572-4
	5/3	●					●			●						●	●								(ISO 3)	543	P570-20 P572-10
●						●			●							●	●							(ISO 4)	544	P570-36	
●						●			●																COMPACT8	576	P574-9
●						●			●						●	●									Micro 10	518	P545
●						●			●	●					●	●										519-520-521	P550
●						●			●																MEGA	578	P575-6
●						●			●							●	●								(VDMA ISO 02-ISO 01)	538-539	P568
●						●			●						●	●									(ISO 1)	541/PH	P570-33 P572-16

- (1) NC : Normally Closed at rest (de-energized) - NO : Normally Open at rest (de-energized)

- (2) Subbases with integrated connections for valves series 520.

- Most of our solenoid and pilot valves can be equipped with solenoid heads EEx, CENELEC agreed, for use in explosive atmospheres : "d", "m", "me" or "i" (see P590 and further)

Characteristics and codes of coils

CHARACTERISTICS OF COILS :

This table shows how the standard coils fitting Joucomatic solenoid valves are classified.
 JOUCOMATIC coils are designed to operate at nominal voltage -10% and +5% (unless there are individual specifications).
 They can be energized permanently as long as the maximum ambient temperature is not exceeded (100% ED).

Solenoid valve Series :	COILS												
	Coil type :	Size 22		Size 25		Size 30	Double pulse Size 22	Metal box IP 65	Casing "d"	Encapsulation "m"			Encapsulation increased safety "me"
	Class : Power :	F 2,5 W	F 4 W	F 3 W	F 5 W	F 4 W	F 4 W	H 12 W	H 12 W	F 4 W	F 5,5 W	F 8,5 W	F 9 W
107 (Rp 1/8)	■	☆				◆				■	☆		
107 (Rp 1/4)				⊛									
189 - 189 banjo	☆					◆				☆			
190			⊛			◆							
192					☆		☆	☆			☆	☆	

- ⊛ Dual - voltage as standard
- ☆ 50 Hz as standard, 60 Hz on request
- Low consumption coil as option
- ◆ Double pulse coil for bistable function only in direct current (see P 514)

CODES OF COILS :

Table shows the codes for coils by valve series and for each voltage (coils supplied as spare).

Solenoid valve Series	Coil type Size	Alternating current (~) 50 Hz					Direct current (=)			
		24V	48V	115V	230V	240V	12V	24V	48V	110V
107 (Rp 1/8)	22 - 4W	43004152	43004153	43004154	43004155	43004155	43004151	43004158	43004159	43004161
	22 / BDI - 4W (1)	-	-	-	-	-	43004725	43004726	43004727	43004728
	22 "m" 5,5 W	43004778	43004779	43004780	43004809	43004782	43004984	43004786	43004787	43004788
107 (Rp 1/4)	25 - 5 W	43004646	43004647	43004648	43004649	43004649	43004646	43004647	43004648	43004649
189	22 - 2,5 W	43004416	43004417	43004419	43004422	43004423	43004149	43004166	43004167	43004168
	22 / BDI - 4W (1)	-	-	-	-	-	43004725	43004726	43004727	43004728
	22 "m" 4 W	43004773	43004774	43004775	43004808	43004777	43004983	43004783	43004784	43004785
190	25 - 3 W	43004469	43004473	43004471	43004472	-	43004469	43004473	43004471	43004472
	22 / BDI - 4W(1)	-	-	-	-	-	43004725	43004726	43004727	43004728
192	30 - 4 W	43004181	43004182	43004183	43004184	43004185	43004661	43004541	43004542	43004543
	IP65 - 12 W	43004246	43004665	43004248	43004249	43004251	43004232	43004233	43004234	43004235
	"d" - 12 W	43004246	43004665	43004248	43004249	43004251	43004232	43004233	43004234	43004235
	"m" - 8,5 W	43004789	43004790	43004791	43004813	43004793	-	43004794	43004795	43004796
	"me" - 9W	43004994	43004995	43004996	43004997	-	43004988	43004989	43004991	43004992

(1) BDI : Double pulse coil, direct current only
 General information of solenoid valves, see chapter 5